PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FWA3-19	FOR FURTHER ACTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PCT/IPEA/4)					
International application No. PCT/JP2003/009027	International filing date (a 16 July 2003 (16		Priority date (day/month/year) 17 July 2002 (17.07.2002)			
International Patent Classification (IPC) or r D01F 9/133, C01B 31/02	national classification and IF	PC				
Applicant BUSSAN	N NANOTECH RESEA	ARCH INSTIT	UTE INC.			
This international preliminary examand is transmitted to the applicant a	nination report has been pre according to Article 36.	pared by this Inter	national Preliminary Examining Authority			
2. This REPORT consists of a total of	f 3 sheets, in	cluding this cover	sheet.			
This report is also accompa		eets of the descript containing rectific	tion, claims and/or drawings which have been cations made before this Authority (see Rule			
These annexes consist of a	total ofshe	eets.				
3. This report contains indications relating to the following items: I Basis of the report						
III Non-establishmer	nt of opinion with regard to	novelty, inventive	step and industrial applicability			
IV Lack of unity of i	nvention					
	ent under Article 35(2) with lanations supporting such st	regard to novelty, atement	inventive step or industrial applicability;			
VI Certain documen	ts cited					
*** L	n the international application					
VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of this report				
21 November 2003 (2	1.11.2003)	2	4 August 2004 (24.08.2004)			
Name and mailing address of the IPEA/	Jb.	Authorized offic	er			
Facsimile No.		Telephone No.				

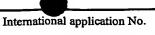
Translation

International application No.

PCT/JP2003/009027

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. I	Basis o	of the rep	port	
1.	With 1		the elements of the international application:*	
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		pages .		as originally filed I with the demand
		pages .		Willi the demand
		pages .	. , filed with the letter of	
		the claim	ims:	as originally filed
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3	the in These Control of the in	the lar the lar the lar or 55. h regard iminary contai filed t furnis furnis The intern	d to any nucleotide and/or amino acid sequence disclosed in the international application examination was carried out on the basis of the sequence listing: ained in the international application in written form. together with the international application in computer readable form. shed subsequently to this Authority in written form. ished subsequently to this Authority in computer readable form. statement that the subsequently furnished written sequence listing does not go beyond the national application as filed has been furnished. statement that the information recorded in computer readable form is identical to the written a furnished.	der Rule 55.2 and/ the international
	5.		amendments have resulted in the cancellation of: the description, pages the claims, Nos the drawings, sheets/fig report has been established as if (some of) the amendments had not been made, since they have been disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	een considered to go
	* Rep	olacemen this repo	nt sheets which have been furnished to the receiving Office in response to an invitation under Artic port as "originally filed" and are not annexed to this report since they do not contain amen	,



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V. Reasoned statement under Artic citations and explanations suppo		elty, inventive step or industrial applicability;	
1. Statement	•		
Novelty (N)	Claims	1-11	YES
	Claims		_ NO
Inventive step (IS)	Claims	1-11	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-11	_ YES
	Claims		_ NO

2. Citations and explanations

Claims 1, 2

None of the documents describes providing a post-reaction gas cooling device, second fine carbon fiber separation and recovery device, and gas recycling device; the subject matter of these claims is novel. Also, the post-reaction gas cooling device condenses and separates condensing components and unreacted raw material and the like, such as water produced by the reaction in the gas, and thus achieves the effect of preventing clogging of the pipes, so it involves an inventive step. Claims 3-11

The inventions of these claims cite the aforesaid claims 1 and 2, and pertain to a method for producing fine carbon fiber with additional technical limitations, so like claims 1 and 2 they are novel and involve an inventive step.